

# M 6.9, EASTERN HONSHU, JAPAN

Origin Time: Fri 2008-06-13 23:43:46 UTC

Location: 39.12°N 140.68°E Depth: 10 km

**PAGER**  
**Version 7**

Created: 3 days, 16 hrs after earthquake

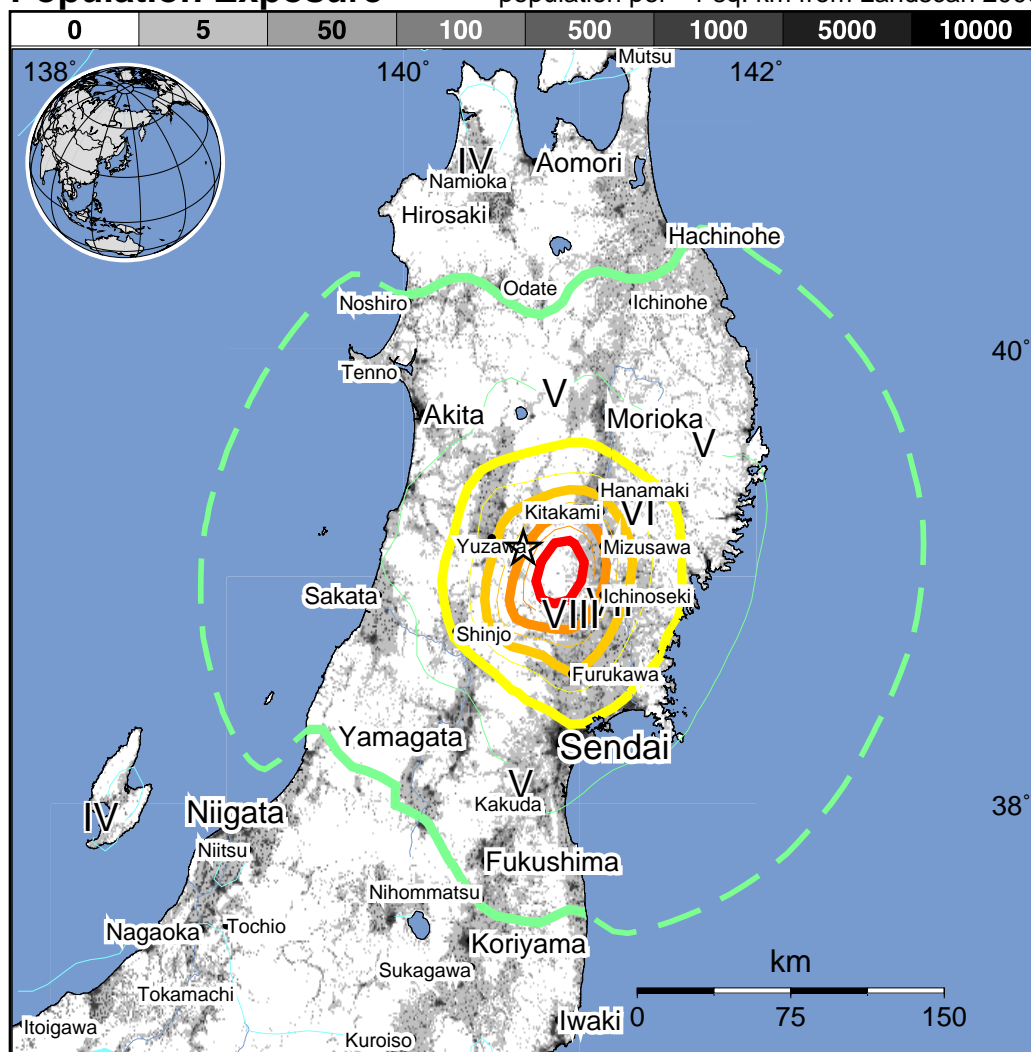
## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- - *	286k*	5,537k*	4,527k	1,418k	571k	89k	6k	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	none	none	none	V. Light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

### Population Exposure

population per ~1 sq. km from Landscan 2006

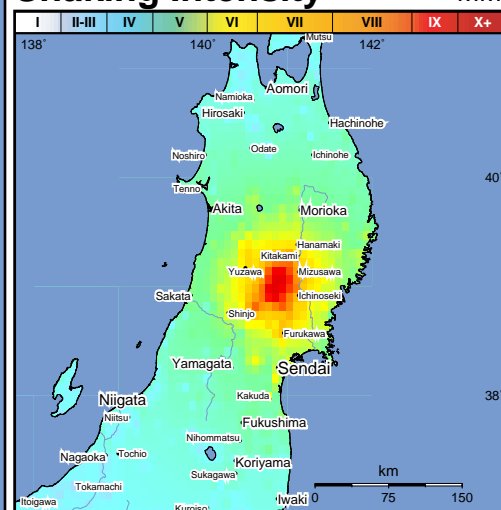


### Selected City Exposure

MMI City	Population
VII Mizusawa	61k
VII Ichinoseki	62k
VII Furukawa	76k
VII Kitakami	93k
VII Yokote	39k
VI Hanamaki	73k
VI Yuzawa	33k
VI Sendai	1,037k
IV Koriyama	340k
IV Iwaki	357k
IV Niigata	505k

bold cities appear on map (k = x1000)

### Shaking Intensity



Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. A magnitude 7.6 earthquake and tsunami 156 km Northeast of this one struck Miyagi-Oki, Japan on June 12, 1978 (UTC), with estimated population exposures of 1,303,000 at intensity VIII and 2,557,000 at intensity VII, resulting in an estimated 22 fatalities. On October 23, 2004 (UTC), a magnitude 6.6 earthquake 262 km Northeast of this one struck Japan, with estimated population exposures of 481,000 at intensity IX or greater and 386,000 at intensity VIII, resulting in an estimated 67 fatalities. Recent earthquakes in this area have caused, landslides and fires that may have contributed to losses.